APPENDIX A

LITHOLOGIC LOGS AND WELL CONSTRUCTION DIAGRAMS

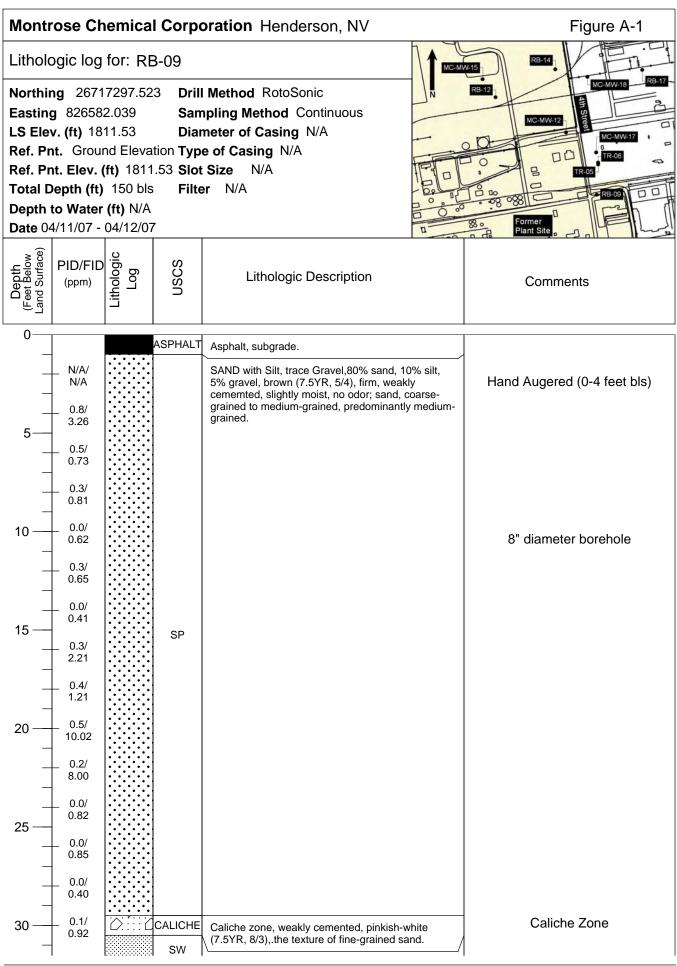


APPENDIX A

LITHOLOGIC LOGS AND WELL CONSTRUCTION DIAGRAMS

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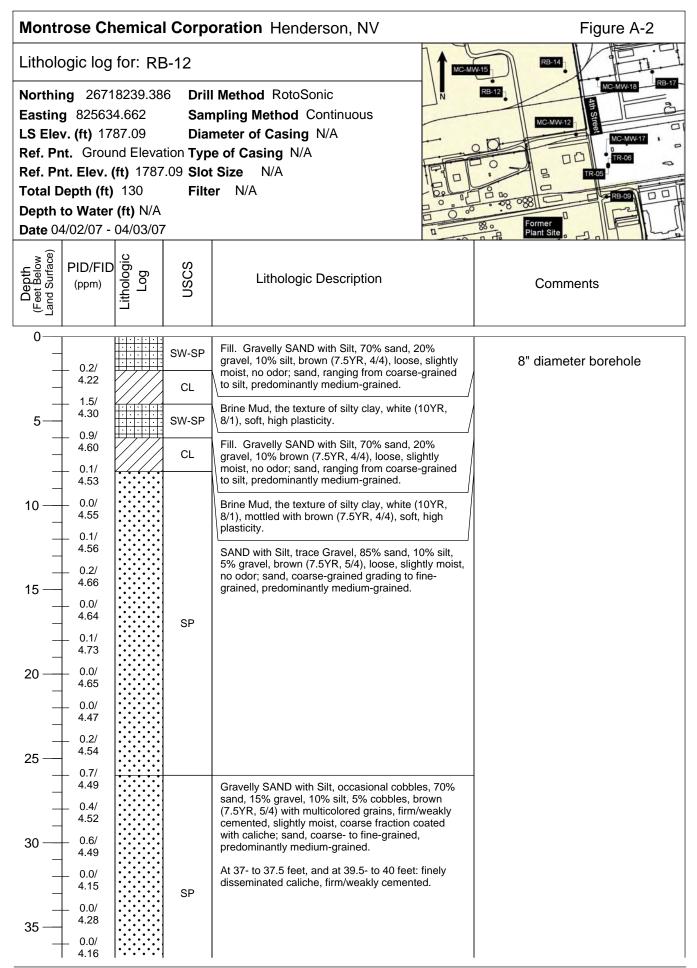
Lithol	ogic and	d well c	Figure A-1 (continued)		
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Comments
35 —	0.4/ 4.62 - 0.1/ 0.71 - 0.3/ 1.14 - 0.4/ 1.35		ML	Silty SAND, 80% sand, 20% silt, brown (7.5YR, 5/4), soft, loose, slightly moist, no odor; sand, finegrained grading to silt. SILT with Sand, 90% silt, 10% sand, brown (7.5YR, 5/4), soft, plasticity: low- to none.	
40 —	0.4/ 1.31 1.0/ 7.57		SP	Gravelly SAND, trace Silt, brown (7.5YR, 5/4), firm to loose, slightly moist; sand, coarse- to finegrained, predominantly medium-grained.	
45 — — —	0.5/ 4.53 - 0.4/ 3.80		ML	CLAYEY SILT, brown (7.5YR, 5/4), firm to moderately dense, plasticity: moderate- to low, slightly moist.	
50 —	0.6/ 2.20 0.2/ 2.01		ML	Sandy SILT, 60% silt, 40% sand, brown (7.5YR, 5/4), firm, low plasticity, moist/wet; sand, finegrained grading to silt	
_	0.9/ 3.31		SP	SAND with Silt, 90% sand, 10% silt, multi-colored grains, loose, wet, predominantly coarse-grained.	
_ _ 55 —	0.9/			CLAYEY SILT, brown (7.5YR, 5/4), firm to moderately dense, plasticity: moderate- to low, slightly moist.	
_	_ 0.8/ 3.20			At 52- to 53 feet: caliche nodules.	
- -	0.6/ 3.51		ML	From 58- to 60 feet: mottled, brown (7.5YR, 5/4) with light brown (7.5YR, 6/2). Little or no reaction with HCI.	
60 —	0.5/ 3.74			From 60- to 63 feet: predominantly caliche nodules.	
_	0.4/				
65 —	0.8/ 7.91			CLAYEY-SILT, brown (7.5YR, 5/4), moderately dense, moderate- to high plasticity, slightly moist, no odor, no reaction with HCl.	
_ _ _	15.52 1.8/		ML		
-	20.09				
70 — —	10.80	<u> </u>	CALICHE	Caliche Zone: fine-grained caliche forms matrix, caliche nodules, grains present.	
	19.6/ 55.21		ML	CLAYEY-SILT, brown (7.5YR, 5/4), dense to very dense, plasticity: moderate- to high.	



Lithol	ogic and	d well c	ction log: RB-09	Figure A-1 (continued)	
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Comments
75 —	42.8/ 198 14.5/ 55.42		ML	Sandy SILT, brown (7.5YR), dense to very dense, plasticity: moderate- to high; caliche grains,	
80 —	2.1/ 17.42 1.2/ 15.83		SP	disseminated caliche. At 75.5 feet: caliche nodules. SAND, with Silt, sith Gravel, 80% sand, 10% silt, 10% gravel, brown (7.5YR, 4/4) with multicolored grains, predominantly coarse-grained sand. Basalt.	
- - 85 —	1.2/ 17.85 12.3/ 65.42			CLAYEY-SILT, brown (7.5YR, 5/4), dense to very dense, plasticity: moderate- to high. At 86- to 96 feet: occasional caliche grains.	
90 —	27.44 0.9/ 13.74 0.1/ 16.21		ML		
95 —	0.8/ 10.50 - 0.3/ 10.75 - 0.3/ 6.85				
100 —	0.2/ 2.43 0.4/ 2.67			SILTY CLAY, brown (7.5YR, 5/4), dense to very dense, moderate- to high plasticity; caliche grains/nodules dispersed throughout this interval. At 109 feet: disseminated caliche zone.	
105 —	3.15 0.4/ 2.68 0.4/ 4.02		CL		
- 110 —	0.5/ 3.13 0.6/ 3.50			CLAYEY-SILT, brown (7.5YR, 5/4), dense to very dense, plasticity: moderate- to high.	
	0.3/ 5.27			At 119.5- to 120 feet, at 121.5- to 124 feet at 129- to 131 feet, and at 134.5-135 feet: caliche-rich zones; nodules and medium-grained sand-sized caliche grains.	



Litholo	ogic and	d well c	Figure A-1 (continued)		
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	SOSN	Lithologic Description	Comments
115	0.6/ 5.60 0.4/ 3.40 0.3/ 2.37 0.0/ 2.24 0.1/ 1.60 1.31 0.1/ 1.96 0.1/ 1.20 0.0/ 1.15 0.0/ 1.22 0.0/ 1.27 0.0/ 1.27 0.0/ 1.27		ML	At 136.5: stringer of caliche nodules. At 139- to 140 feet, and at 143- to 144.5 feet: caliche nodules, grains.	
150 —	0.0/ 0.56				Total Depth = 150 feet bls



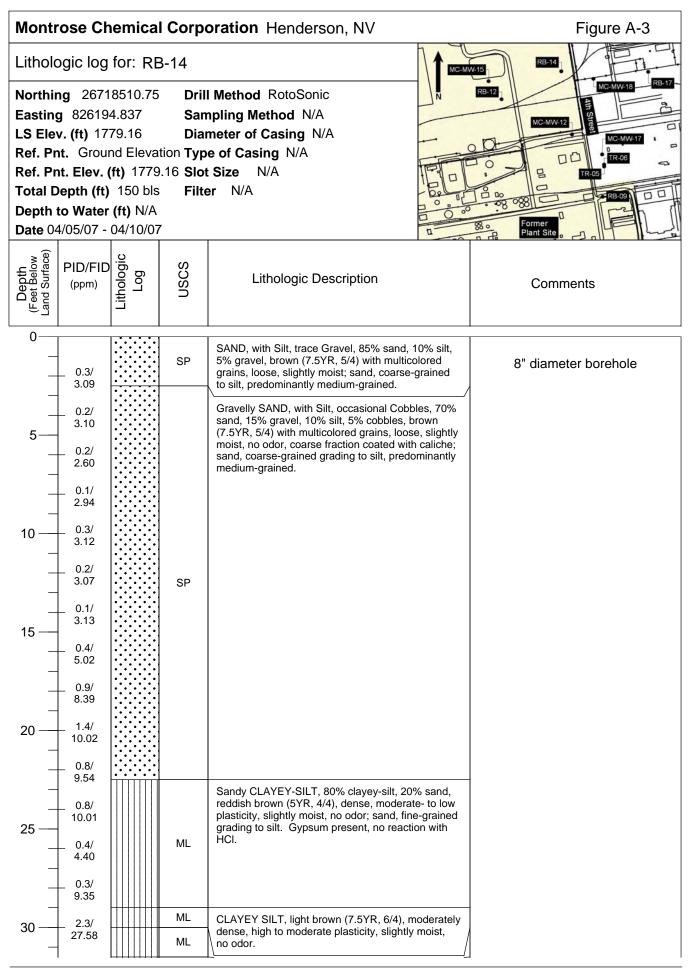


Lithol	Lithologic and well construction log: RB-12 Figure A-2 (continued)					
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	SOSN	Lithologic Description	Comments	
40 —	0.0/ 4.20 - 0.0/ 4.50		SM	Silty SAND with Gravel, 60% sand, 30% silt, 10%		
_	0.0/ 4.26		SIVI	gravel, brown (7.5YR, 5/3), weakly cemented, slightly moist, slight chemical odor; sand, coarse-		
- - 45	0.0/		SP	grained grading to silt. Gravelly SAND with Silt, occasional cobbles, 70% sand, 15% gravel, 10% silt, 5% cobbles, brown		
- -	655/ 1820		ML	(7.5YR, 5/4) with multicolored grains, firm/weakly cemented, slightly moist, coarse fraction coated with caliche; sand, coarse- to fine-grained,		
50 —	957/ 1914 - 712/ 1683		ML	predominantly medium-grained. Sandy CLAYEY SILT, 60% clayey-silt, 40% sand, brown (7.5YR, 5/3) mottled with lighter colored, finely disseminated caliche, dense, moderate		
_	548/ 3500			plasticity, chemical odor increasing. Sandy CLAYEY SILT, 60% clayey-silt, 40% sand,		
55 —	697/ 5320			brown (7.5YR, 5/3) mottled with lighter colored, finely disseminated caliche, soft to moderately dense, moderate plasticity,		
	897/ 3500 865/		ML	CLAYEY-SILT with Sand, 90% clayey silt, 10% sand, reddish brown (5YR, 4/3), dense, moderate-to high plasticity, caliche stringers, nodules, and disseminated caliche present this interval.		
60 —	7650 - 936/ 7480			uissemmated cancile present uns interval.		
- - -	794/ 10300 - 858/ 2900		ML	Sandy SILT, 80% silt, 20% sand, brown (7.5YR, 4/4)soft, moderate plasticity.		
65 — – –	520/ 3145 785/			CLAYEY-SILT with Sand, 90% clayey silt, 10% sand, reddish brown (5YR, 4/3), dense, moderate-to high plasticity, caliche stringers, nodules, and disseminated caliche present this interval.		
	2460			disseminated calicile present this interval.		
70 — –	795/ 3865					
_	1135/ 3345					
75 —	1197/ 7719		ML			
_	1699/ 7620					
_	1076/ 5630					
80 —	2780					
_	1396/ 12700					
85 —	1686/ 12200					



Litholo	gic and	d well c	Figure A-2 (continued)		
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Comments
+	- 513/ 2240			CLAVEV CILT vanunala braven (7 EVD. 7/2) aat	
1	_ 278/		ML	CLAYEY SILT, very pale brown (7.5YR, 7/3), soft, fragments of caliche present.	
90 —	2265 - 104/ 481 - 61.6/		ML	CLAYEY-SILT with Sand, 90% clayey silt, 10% sand, reddish brown (5YR, 4/3), dense, moderate-to high plasticity, caliche stringers, nodules, and disseminated caliche present this interval.	
95 —	276 - 45.5/ 242		ML	CLAYEY SILT, very pale brown (7.5YR, 7/3), soft, fragments of caliche present.	
95 —	- 16.8/ 68.25 - 3.4/		SM	Silty SAND, 60% sand, 40% silt (7.5YR, 5/4), firm, very weakly cemented, moist, no odor; sand, finegrained grading to silt.	
100	13.75 - 6.1/ 19.22		ML SM	Sandy SILT, 60% silt, 40% sand, (7.5YR, 5/4), firm, very weakly cemented, moist, no odor; sand, finegrained grading to silt.	
	- 1.0/ 4.75 - 1.2/ 6.50			Silty SAND, 60% sand, 40% silt (7.5YR, 5/4), firm, very weakly cemented, moist, no odor; sand, fine-grained grading to silt. CLAYEY-SILT with Sand, 90% clayey silt, 10%	
105 —	- 1.5/ 6.20 - 1.1/		ML	sand, reddish brown (5YR, 4/3), dense, moderate- to high plasticity, caliche stringers, nodules, and disseminated caliche present this interval.	
110	6.25 - 0.4/ 5.67				
+	4.5/ 9.97		ML	CLAYEY SILT, very pale brown (7.5YR, 7/3), soft, fragments of caliche present.	
115 —	3.62 - 1.0/ 2.27			CLAYEY-SILT with Sand, 90% clayey silt, 10% sand, reddish brown (5YR, 4/3), dense, moderate-to high plasticity, abundant caliche nodules this interval.	
+	- 1.1/ 3.39			At 120- to 120.5 feet, and at 124- to 124.5 feet: silty sand stringers.	
120	2.8/ 8.63				
+	- 0.0/ 1.21		ML		
125 —	- 0.7/ 4.65				
-	- 1.42/ 4.67				
+	2.3/ 7.54				
130	- 0.8/ 1.71				Total Depth = 130 feet bls







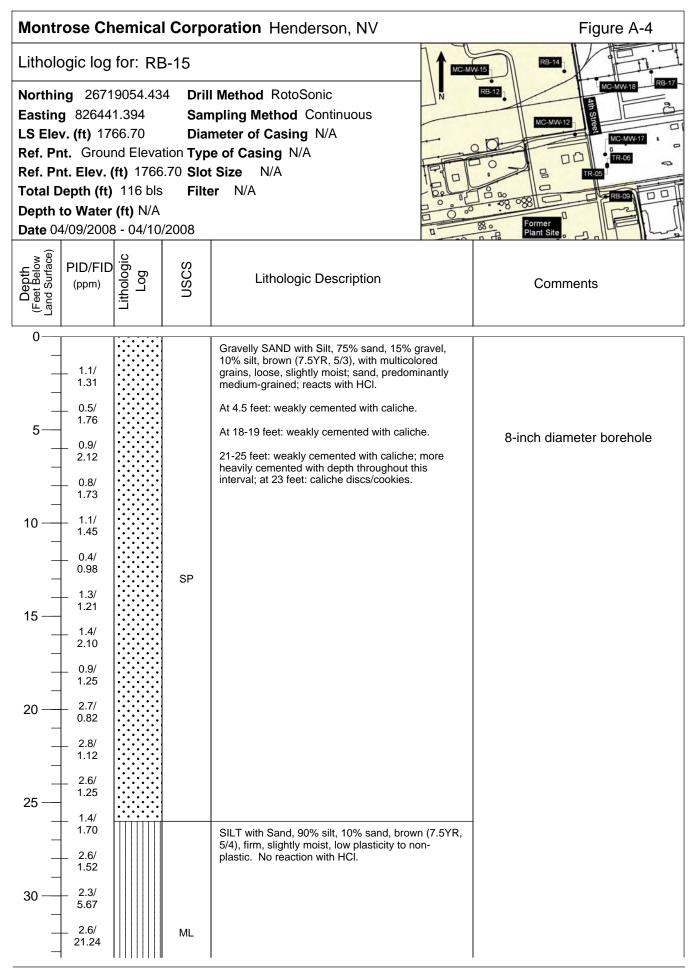
Lithol	Lithologic and well construction log: RB-14 Figure A-3 (continued						
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Comments		
 	1.2/ 38.85 7.4/ 189		ML	CLAYEY SILT, light brown (7.5YR, 6/4), moderately dense, high to moderate plasticity, slightly moist, no odor, calcium carbonate concretions, reacts strongly with HCl.			
35 — –	0.0/ 3.6		ML	Sandy CLAYEY SILT, 85% clayey silt, 15% sand, reddish brown (5YR, 4/4), moderately dense, low plasticity, slightly moist.			
_	0.2/ 22.65		SM	Sandy CLAYEY SILT, 85% clayey silt, 15% sand, reddish brown (5YR, 4/4), dense, low plasticity, slightly moist, gypsum.			
40 —	5.7/ 61.09		ML	Silty SAND, 60% sand, 40% silt, brown (7.5YR, 5/4), loose, slightly moist, no odor; sand, coarsegrained grading to silt, predominantly medium-			
_	15.8/ 232			grained. CLAYEY SILT, strong brown (7.5YR, 5/6), moderately dense, moderate plasticity.			
45 —	12.7/ 338 830/			CLAYEY SILT, strong reddish brown (5YR, 5/4), moderately dense, moderate plasticity. Chemical			
_	2852			odor begins at approximately 45 feet. At 52 feet: stringer of caliche nodules.			
_	6401			At 60- to 68.5 feet: occasional caliche nodules.			
50 —	1171/ 6755			At 68.5- to 69 feet: cemented caliche grains.			
_	948/ 7392						
_ 55 —	_ 1077/ 12000						
_ _	1471/ 5977		ML				
_	1702/ 9015						
60 —	1441/ 5026						
_	_ 1871/ 8863						
_ 65 —	_ 1638/ 9202						
	916/ 3857						
_	1842/ 7954						
70 —	2652/ 15900			CLAYEY SILT, reddish brown (5YR, 5/4), soft to			
	316/ 1523			moderately dense, moderate plasticity, abundant caliche nodules.			



Litholo	Lithologic and well construction log: RB-14				Figure A-3 (continued)
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Comments
75 — —	_ 200/ 748 _ 340/ 2398 _ 295/				
80 —	1241 213/ 1280 180/ 1152		ML		
85 —	_ 152/ 1162 _ 20.7/ 135				
90 —	1.4/ 13.50 - 0.5/ 9.69 - 0.8/ 14.10		ML	CLAYEY SILT, light brown (7.5YR, 6/3), soft to moderately dense, moderate- to low plasticity, comprised predominantly of caliche grains the texture of medium- to fine-grained sand, abundant caliche nodules this interval.	
95 —	_ 0.1/ 12.83 _ 0.3/ 12.62		ML	CLAYEY SILT, reddish brown (5YR, 5/4), soft to moderately dense, moderate plasticity, abundant caliche nodules.	
100	_ 0.2/ 12.60 _ 0.0/ 11.02		ML	CLAYEY SILT, pale brown (10YR, 6/3), moderately dense, moderate plasticity, abundant caliche nodules.	
	_ 0.2/ 4.50 _ 0.2/			CLAYEY SILT, reddish brown (5YR, 5/4), soft to moderately dense, moderate plasticity.	
105 —	5.67 _ 0.1/ 4.44 _ 0.1/		ML		
110 —	5.20 _ 0.3/ 7.98			No Recovery.	
+	_ N/A/ N/A				No Recovery (110-115 feet bls)
115 —	_ N/A/ N/A	<u> </u>	TEC INIC		



Lithologic and we	ell construc	Figure A-3 (continued)	
Depth (Feet Below Land Surface) (mdd) DIJ/DId	Lithologic	Lithologic Description	Comments
115 0.0/ 4.03	ML	CLAYEY SILT, reddish brown (5YR, 5/4), soft to moderately dense, moderate plasticity.	
120 — 0.0/ 4.00 — 0.3/ 3.10 — 0.1/ 5.20 — 0.1/ 3.57	ML	Sandy SILT, 70% silt, 30% sand, brown (7.5YR, 5/4), soft to moderately dense, plasticity: low- to none; sand, fine-grained grading to silt.	
130 — 0.0/ - 0.0/ 3.60 — 0.0/ 2.26 — 0.0/ 4.32	ML	Sandy CLAYEY SILT, 80% clayey silt, 20% sand, brown (7.5YR, 5/4), moderately dense, moderate to low plasticity; sand, fine-grained grading to silt, occasional caliche nodules.	
135 — 0.3/ 3.84 — 0.2/ 2.06		CLAYEY SILT, trace Sand, reddish brown (5YR, 5/4), dense, high- to moderate plasticity, occasional caliche nodules.	
140 0.2/ 1.60 0.5/			
1.06 	ML		
150 — 0.0/ 0.9			Total Depth = 150 feet bls

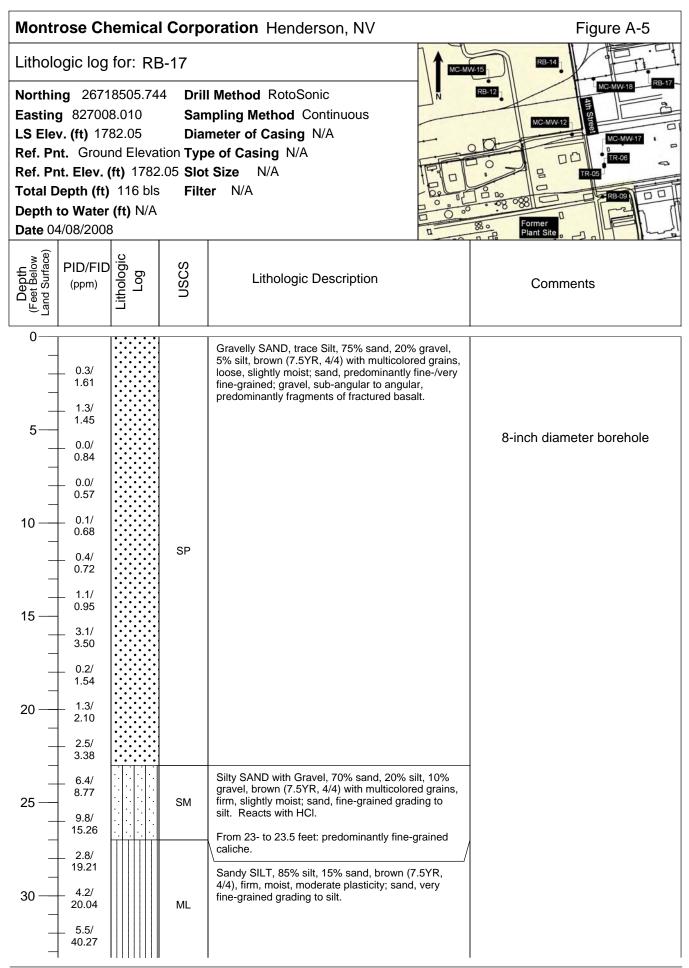




Lithol	ogic and	d well c	Figure A-4 (continued)		
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Comments
35 — -	9.3/ 19.34 7.7/ 28.42				
40 —	137/ 221 101/ 196 124/ 501		ML	CLAYEY SILT, brown (7.5YR, 5/4) moderately dense, moderate- to high plasticity, caliche nodules present. Clayey SILT with Sand, 90% clayey silt, 10% sand, brown (7.5YR, 5/4), moist, moderately dense, low plasticity.	
45 — -	83.5/ 240 132/ 283		ML		
50 —				No Recovery.	No Recovery from 48 to 54 feet below land surface
55 — - -	170/		ML	Clayey SILT with Sand, 90% clayey silt, 10% sand, brown (7.5YR, 5/4), moist, moderately dense, low plasticity.	
60 —	105/ 471 35.1/ 69.73 38.2/ 52.34		ML ML-CL	CLAYEY SILT, light brown (7.5YR, 6/3), dense, slightly moist, low- to moderate plasticity, caliche grains present. From 59- to 61 feet: heavily calichified; layers of caliche interbedded with clayey silt, predominantly	
65 — -	65.4/ 167 178/ 583			CLAYEY SILT/SILTY CLAY, brown (7.5YR, 4/4), dense, high plasticity. CLAYEY SILT, brown (7.5YR, 4/4) with mottling, moderately dense, moderately plastic, abundant caliche nodules, stringers this interval.	
70 —	157/ 560 71.8/ 261 300/ 569		ML	From 68- to 72.5 feet: only occasional caliche nodules.	No Recovery from 73 to 75 feet
75 — -	42.4/98.05			No Recovery. Sandy, CLAYEY SILT, 85% clayey silt, 15% sand, brown (7.5YR, 4/3) with lighter mottling, soft, loose, abundant caliche grains, nodules.	below land surface



Litholog	gic and	d well c	onstruc	ction log: RB-15	Figure A-4 (continued)
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	SOSN	Lithologic Description	Comments
80 —	60.2/ 81.21 47.2/ 50.25		ML		
85 —	93.4/ 81.55 80.0/ 78.75 55.0/ 79.72 75.3/ 93.76		ML	CLAYEY SILT with Sand, 90% clayey silt, 10% sand, firm to soft, moderate- to high plasticity; sand fraction consists of caliche grains, caliche nodules present. From 84 feet: dense. At 86 feet: stringer of caliche nodules.	
90 —	55.1/ 64.75		CL ML ML	SILTY CLAY, brown (7.5YR, 4/6), very dense, high plasticity. SILT, pinkish white (7.5YR, 8/2), firm- to moderately	
95 —	49.7/ 86.21 - 6.1/ 5.42 - 4.6/ 8.01		IVIL	dense, low plasticity, consists of caliche grains. CLAYEY SILT with Sand, brown (7.5YR, 4/3), moderately dense, low plasticity; sand fraction consists of caliche grains. SILTY CLAY, brown (7.5YR, 4/6), very dense, high plasticity, pockets of caliche grains present.	
100 —	2.85 1.3/ 2.50			95- to 96 feet: caliche grains.	
105 —	0.74 0.74 0.7/ 0.46 0.2/ 0.25		CL		
110 —	0.7/ 0.85 0.6/ 0.31				
115 —	0.35 0.7/ 0.46 0.4/ 0.42				Total Depth = 116 feet below land surface



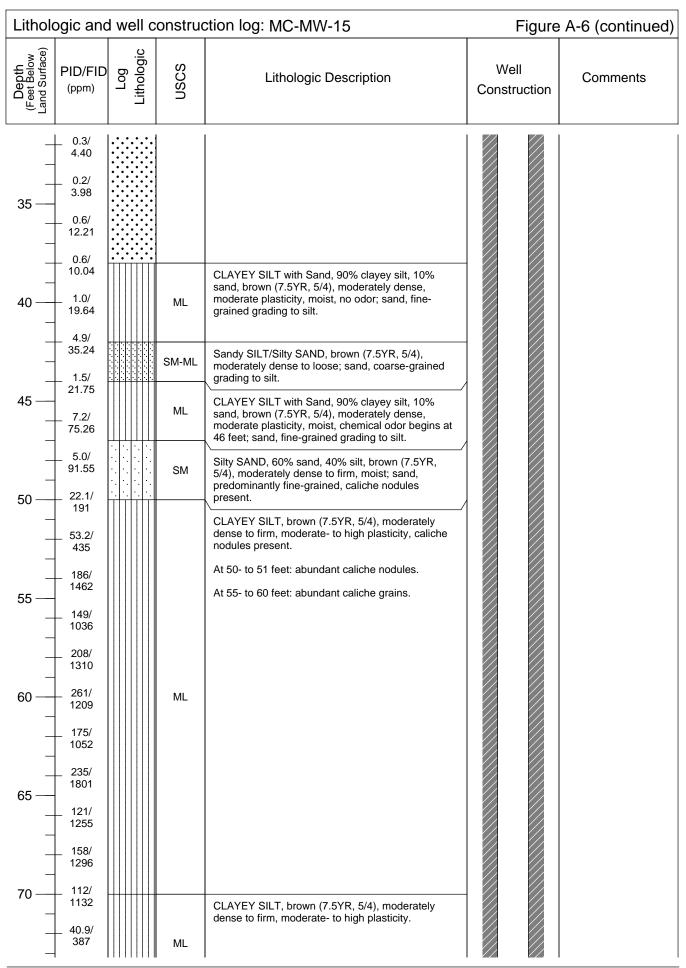


Lithologic and well c	Lithologic and well construction log: RB-17					
Depth (Feet Below Land Surface) (Badd) did (Badd) did (Color Color	SOSO	Lithologic Description	Comments			
35 — 4.2/ 22.30 · · · · · · · · · · · · · · · · · · ·		Silty SAND, 60% sand, 40% silt, brown (7.5YR, 4/4), firm, moist, sand, predominantly fine-grained grading to silt. At 48 feet: stringer of caliche nodules.				
40 — 1.4/ 10.71 · · · · · · · · · · · · · · · · · · ·	SM					
45 — 37.27 · · · · · · · · · · · · · · · · · · ·						
50 — 3.1/ 28.36	ML	Sandy SILT, 85% silt, 15% sand, brown (7.5YR, 4/4), firm, moist, moderate plasticity; sand, very fine-grained grading to silt.				
5.6/ 57.64 52.83 	SM	From 49.5 to 51 feet: occasional caliche nodules Silty SAND, 60% sand, 40% silt, brown (7.5YR, 4/4), soft, moist; sand, very fine-grained grading to silt.				
60 — 4.3/ 44.93 — 3.4/ 39.77 — 10.2/ 98.27	ML	Sandy SILT, 60% silt, 40% sand, brown (7.5YR, 4/4), soft, moist; sand, very fine-grained grading to silt.				
65 — 5.8/		CLAYEY SILT, brown (7.5YR, 5/4), firm, moderate- to high plasticity, occasional caliche nodules.				
70 — 3.9/ 50.74 — 4.2/ 51.90						
75 — 2.5/ 44.25 — 4.1/ 75.09	ML					

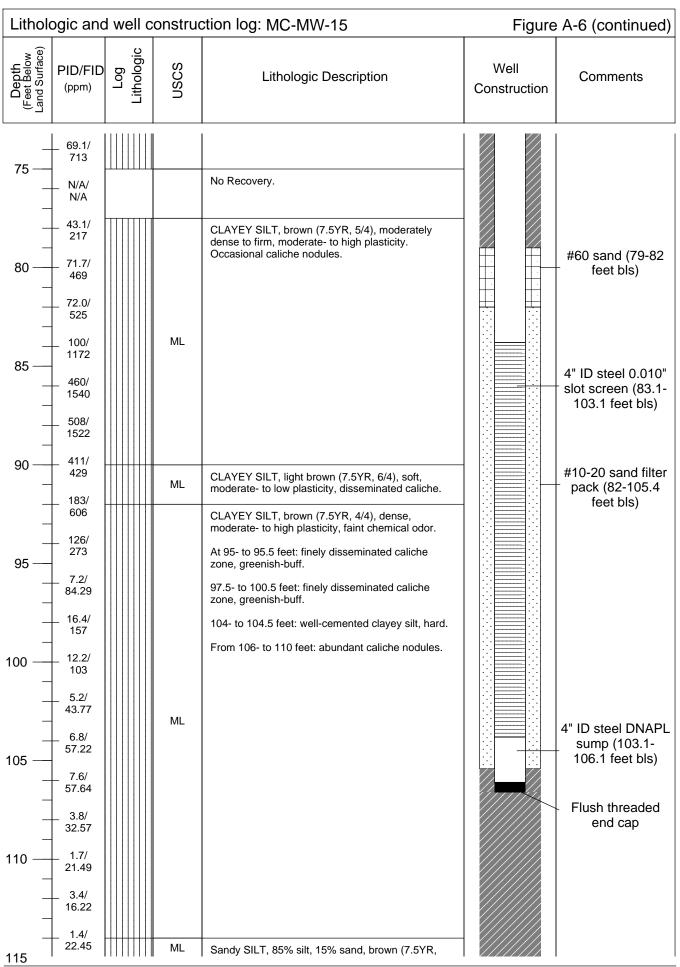
Lithol	Lithologic and well construction log: RB-17 Figure A-5 (continued)					
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	SOSN	Lithologic Description	Comments	
80 —	4.3/ 164 12.4/ 98.11					
85 —	97.41 - 3.5/ 106 - 5.8/ 117			CLAYEY SILT/SILTY CLAY, brown (7.5YR, 5/4),		
90 —	2.2/ 15.08 2.4/ 16.27		ML-CL	dense, high plasticity.		
95 —	1.5/ 30.44 2.1/ 28.75					
	25.26 1.6/ 21.04 1.3/		ML	CLAYEY SILT, brown (7.5YR, 5/4), firm, moderate-to high plasticity, occasional caliche nodules.		
- - -	10.47 / 10.39		ML-CL	CLAYEY SILT/SILTY CLAY, brown (7.5YR, 5/4), dense, high plasticity.		
105 —	10.39 1.6/ 7.91 1.4/			SILTY CLAY, brown (7.5YR, 5/4), very dense, high plasticity. At 106 feet: pockets of caliche grains.		
- 110 — -	9.19 1.9/ 2.21		CL			
- 115 — -	2.67 1.0/ 1.72 1.6/ 2.12				Total Depth = 116 feet below land surface	

Montrose Chemical Corporation Henderson, NV Figure A-6 Lithologic and well construction log: MC-MW-15 **Northing** 26718415.142 **Drill Method** RotoSonic **Easting** 825513.650 Sampling Method Continuous **LS Elev. (ft)** 1786.65 Diameter of Casing 4" Ref. Pnt. Top of Casing Type of Casing Steel **Ref. Pnt. Elev. (ft)** 1788.44 **Slot Size** 0.010" Total Depth (ft) 150 bls Filter #10-20 Sand Depth to Water (ft) 48.65 Date 04/16/07 - 04/18/07 Depth (Feet Below Land Surface) Lithologic **USCS** PID/FID Well Log Lithologic Description (ppm) Comments Construction 0 Monument Vault Gravelly SAND with Silt, 70% sand, 15% gravel, 10% silt, brown (7.5YR, 5/3), loose, slightly moist, (Top of Casing is N/A/ no odor; sand, coarse- to fine-grained, ~1.98 feet above N/A predominantly medium-grained. land surface) At 34.5 to 35 feet: clayey silt stringer. N/A/ Hand augered (0-N/A 5 feet bls) 0.0/ 0.45 0.0/ 0.65 0.0/ 10 -8" diameter 1.26 borehole 0.0/ 1.14 0.0/ 0.75 15 Bentonite cement 0.0/ (0-79 feet bls) 1.72 0.0/ 1.83 SP 0.0/ 20 -4" ID steel casing 1.90 (0-83.1 feet bls) 0.6/ 3.80 0.2/ 3.63 25 1.5/ 10.07 0.1/ 3.58 0.2/ 30 -2.85







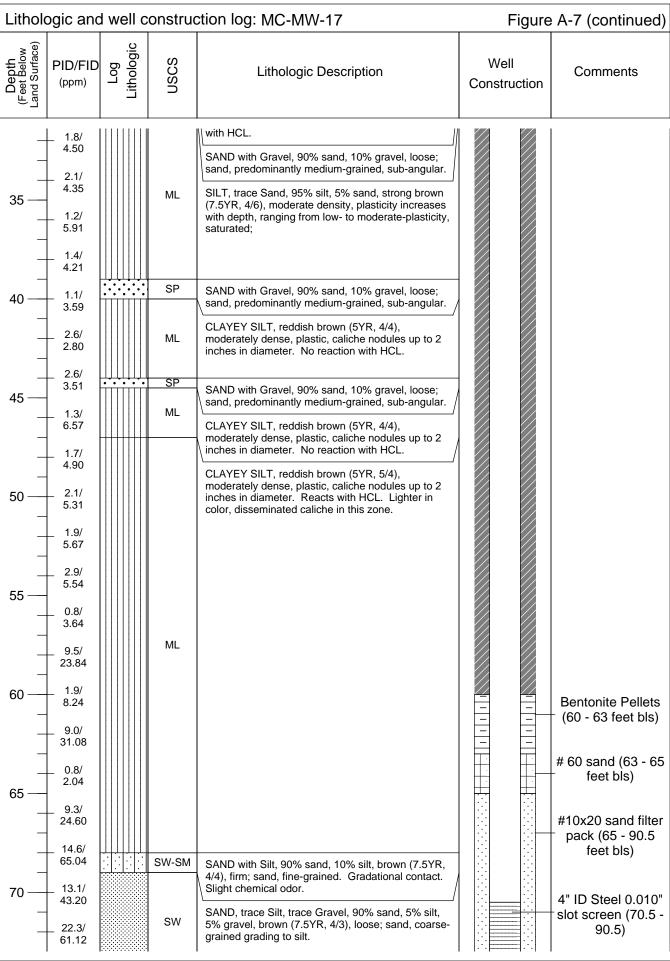




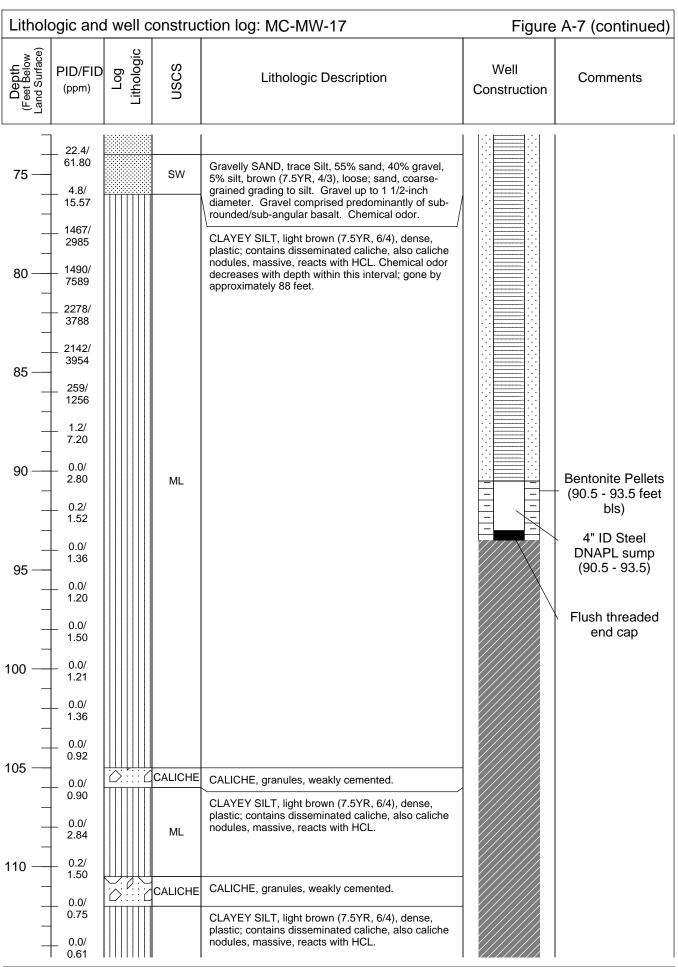
Litholo	Lithologic and well construction log: MC-MW-15					A-6 (continued)
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Well Construction	Comments
115 —	0.1/ 3.31 0.0/ 2.95		CL	5/4), moderate density, plasticity; low- to none, sand, very fine-grained grading to silt. SILTY CLAY, brown (7.5YR, 5/4), very dense, high plasticity. Veins/pockets of yellowish-green, very fine-grained sand.		
120 —	_ 0.3/ 6.02 _ 0.1/ 6.40			CLAYEY SILT, brown (7.5YR, 5/4), moderately dense, moderate- to high plasticity. At 123 feet: stringers of caliche nodules.		Bentonite Cement (105.4-150 feet bls)
125 —	_ 0.2/ 4.51 _ 0.0/ 2.60			At 129 feet: concretion. At 133- 133.5 feet: disseminated caliche.		
130 —	_ 0.0/ 2.94 _ 0.1/ 3.04		ML			
_	_ 0.0/ 2.28 _ 0.0/ 3.50					
135 —	_ 0.0/ 2.65 _ 0.0/					
140 —	2.33 _ 0.0/ 3.10 _ 0.1/			SILTY CLAY and CLAYEY SILT interbedded; silty clay, reddish brown (5YR, 5/4), dense, moderate- to high plasticity; clayey silt, brown (7.5YR, 5/4),		
145 —	3.25 _ 0.0/ 2.75		CL-ML	dense to moderately dense, moderate to high plasticity. At 147 feet: caliche layer, disseminated caliche with nodules.		
_	_ 0.3/ 2.61 _ 0.0/ 2.43					
150 —	_ 0.0/ 1.44					Total Depth = 150 feet bls

Montrose Chemical Corporation Henderson, NV Figure A-7 Lithologic and well construction log: RB-10/MC-MW-17 Northing 26717707.837 **Drill Method** RotoSonic Easting 826576.824 Sampling Method Continuous **LS Elev. (ft)** 1797.67 Diameter of Casing 4-inch Ref. Pnt. Top of casing Type of Casing Stainless Steel **Ref. Pnt. Elev. (ft)** 1800.42 **Slot Size** 0.010" Total Depth (ft) 150 bls Filter #10-20 Sand Depth to Water (ft) N/A Date 03/20/08 - 03/24/08 Depth (Feet Below Land Surface) Lithologic **USCS** PID/FID Well Log Lithologic Description (ppm) Comments Construction 0 SAND with Silt, occasional gravel, 90% sand, 10% Monument vault silt, light brown (7.5YR, 6/3) with multicolored (TOC is ~3 feet 5.0/ grains, loose, dry; sand, predominantly fineabove land 2.00 grained. Reacts with hydrochloric acid (HCL). surface) SP 0.0/ 0.30 0.2/ 0.20 SAND with Silt, occasional gravel, 90% sand, 10% 0.1/ silt, light brown (7.5YR, 6/3) with multicolored 1.20 grains, firm, slightly moist, sand, predominantly fine-grained. Reacts with HCL. 0.3/ 10 -SP 0.10 1.6/ Bentonite cement 0.70 (0 - 60 feet bls) SAND, trace Silt, 95% sand, 5% silt, occasional 0.0/ gravel, light brown (7.5YR, 6/4) with multicolored 0.30 grains, firm, slightly moist; sand, medium- to fine-15 grained. Reacts with HCL. 0.3/ SP 0.40 0.0/ 0.10 SM 0.2/ 20 Silty SAND, 80% sand, 20% silt, light brown 1.20 (7.5YR, 6/4) with multicolored grains, weakly SP cemented, slightly moist; sand, fine-grained grading 0.4/ to silt. Reacts with HCL. 4" ID Steel casing 0.70 (0 - 70.5 feet bls) SAND, trace Silt, 95% sand, 5% silt, occasional SM gravel, light brown (7.5YR, 6/4) with multicolored 0.0/ grains, firm, slightly moist; sand, medium- to fine-0.80 25 grained. Reacts with HCL. 1.0/ Silty SAND, 80% sand, 20% silt, light brown 1.80 (7.5YR, 6/4) with multicolored grains, weakly SM cemented, slightly moist; sand, fine-grained grading 0.6/ to silt. Reacts with HCL. 1.70 Silty SAND, 75% sand, 25% silt, strong brown (7.5YR, 5/6), moderately dense, slightly moist; 1.2/ 30 SP 1.50 sand, very fine-grained grading to silt. At 28 feet: weakly cemented clumps of caliche. Reacts weakly









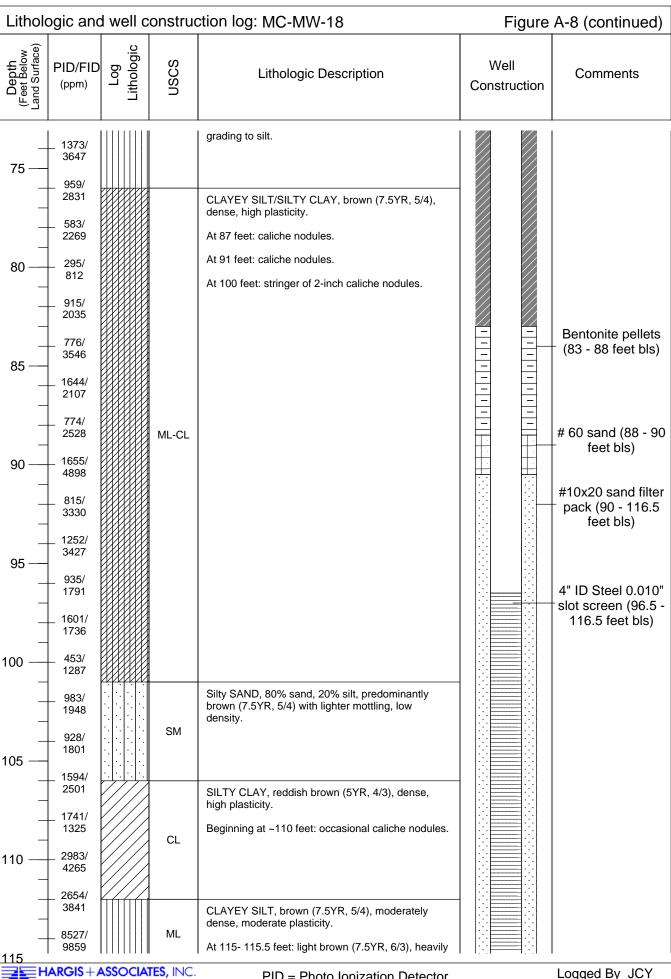
Lithologic and well co	Figure	A-7 (continued)		
Depth (Feet Below Land Surface) (mdd) DIJ/DIA Lithologic	nscs	Lithologic Description	Well Construction	Comments
0.61 115 — 0.0/	ML			
120 — 1.3/ 0.70	CALICHE	CALICHE, granules, weakly cemented.	_	Bentonite cement (93.5 - 150 feet bls)
0.88	CALIONE	CLAYEY SILT, light brown (7.5YR, 6/4), dense, plastic; contains disseminated caliche, also caliche nodules, massive, reacts with HCL.		515)
- 0.08 - 0.2/ 0.50 - 130 - 0.1/ 0.21				
0.0/ 0.10 — 6.8/ 1.20				
135 — 0.0/ 0.13 — 0.0/ 0.41	ML			
140 — 0.0/ 0.226 — 0.0/				
145 — 0.0/ 0.10				
1.7/ 0.36 - 1.1/ 0.71				Total Depth = 150 feet bls

Montrose Chemical Corporation Henderson, NV Figure A-8 Lithologic and well construction log: RB-11/MC-MW-18 **Northing** 26718439.153 **Drill Method** RotoSonic **Easting** 826495.850 Sampling Method Continuous **LS Elev. (ft)** 1784.50 Diameter of Casing 4-inch Ref. Pnt. Top of case Type of Casing Stainless Steel **Ref. Pnt. Elev. (ft)** 1787.10 **Slot Size** 0.010" Total Depth (ft) 146 bls Filter #10-20 Sand Depth to Water (ft) N/A Date 03/26/08 - 03/27/08 Depth (Feet Below Land Surface) Lithologic **USCS** PID/FID Well Log Lithologic Description (ppm) Comments Construction 0 SAND, trace Silt, trace Gravel, 90% sand, 5% silt, Monument vault 5% gravel, brown (7.5YR, 5/4) with multicolored (TOC is 2.85 feet 0.8/ grains, firm, slightly moist; sand, medium-/fineabove land 0.61 grained grading to silt. Reacts with hydrochloric acid (HCL). surface) 0.8/ 0.43 1.5/ 0.94 1.4/ 0.24 1.8/ 10 -0.20 2.2/ Bentonite cement 3.60 SW (0 - 83 feet bls) 0.3/ 2.82 15 0.9/ 2.49 0.9/ 4.12 0.4/ 20 -0.52 1.1/ 2.71 2.4/ 4" ID Steel casing 3.01 25 (0 - 96.5 feet bls) 1.7/ 2.23 Caliche layer, very hard, comes out the core barrel in discs/cookies. CALICHE 2.5/ 7.97 CLAYEY SILT, strong brown (7.5YR, 5/6), very 1.5/ 30 dense/dense, very slightly moist, moderate- to low-5.80 plasticity. Occasional caliche nodules.



Lithol	Lithologic and well construction log: MC-MW-18					Figure A-8 (continued)	
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	nscs	Lithologic Description	Well Construction	Comments	
35 — 35 — 40 — 45 — 50 — 60 —	5.1/ 20.13 3.1/ 15.82 9.7/ 30.00 11.4/ 78.17 43.4/ 180 135/ 423 457/ 1101 401/ 1628 368/ 1309 323/ 856 228/ 1006 285/ 1387 400/ 874		ML	At 36 feet: plasticity and moisture increase: moderately plastic, saturated. At 47 feet: mottling caused by finely disseminated caliche. At 58.5 feet: stringer of caliche nodules, less than 2 inches diameter.			
 65 	579/ 1625 - 745/ 1271 - 412/ 1656 - 642/ 2761		ML	Sandy SILT, 80% silt, 20% sand, brown (7.5YR, 4/4), firm/soft, low plasticity; sand, very fine-grained grading to silt.			
_	2/01		SP	Silty SAND, trace Gravel, 80% sand, 15% silt, 5%			
70 — -	1283/ 3643 640/			gravel, brown (7.5YR, 4/4), with multicolored grains; sand, predominantly coarse-grained, fine-grained sand fraction grades to silt.			
	2662		ML	Sandy SILT, 80% silt, 20% sand, brown (7.5YR, 4/4), firm/soft, low plasticity; sand, very fine-grained			





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Lithol	ogic and	d well c	Figure A-8 (continued)			
Depth (Feet Below Land Surface)	PID/FID (ppm)	Log Lithologic	SOSN	Lithologic Description	Well Construction	Comments
115 — — — — — — — — — — — — — — — — — —	9080/ 10160 162/ 460 37.3/ 77.35 2.9/ 4.15 0.5/ 1.06		CL	mottled with lighter colored material, abundant caliche nodules. SILTY CLAY, reddish brown (5YR, 4/3), dense, high plasticity. At 118.5-124 feet: heavily dispersed grains of caliche, similar to mottled zones except coarser, more granular.		Bentonite pellets (116.5 - 119.5 feet bls) 4" ID Steel DNAPL sump (116.5 - 119.5 feet bls) Flush threaded end cap
130 —	0.14 0.00/ 0.38 0.4/		CL	SILTY CLAY, light brown (2.5Y, 6/2), dense, high plasticity, contains caliche grains, nodules less than 1 inch in diameter, no reaction with HCl except with caliche grains. Contains veins of yellowish substance.		# 3 Sand (119.5 - 133 feet bls)
- - - 135 —	0.0/ 0.05 - 0.0/ 0.07 - 0.6/ 0.06			SILTY CLAY brown (7.5YR, 5/3), dense, high plasticity, occasional caliche nodules. At 145 feet: stringer of caliche nodules.		Bentonite cement (133 - 136 feet bls)
140 — —	0.4/ 0.54 - 2.4/ 0.13 - 0.0/ 0.24		CL			Sluff (136 - 146 feet bls)
145 —	0.0/					Total Depth = 146 feet bls